NATIONAL COMMUNICABLE DISEASE CENTER

Morbidity and Mortality

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U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

PUBLIC HEALTH SERVICE

HEALTH SERVICES AND MENTAL HEALTH ADMINISTRATION

EPIDEMIÓLOGIC NOTES AND REPORTS PLÁGUE CASE — Navajo Reservatian — Kayenta, Arizona

On July 10, an 8-year-old Navajo Indian girl, living near Kayenta, Arizona, developed a febrile illness. On the third day of her illness, she developed a painful left inguinal swelling and was hospitalized at the Tuba City PHS Indian Hospital on July 13 with a clinical diagnosis of bubonic plague. The child was started on tetracycline therapy on admission, and streptomycin was added to the regimen on July 15. She has since shown a gradual but definite improvement in her symptoms.

A culture of a bloody material aspirated from the vicinity of the inguinal adenopathy, that was obtained at the Tuba City PHS Hospital and sent to the Gallup PHS

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Hospital for further analysis, yielded a Gram-negative bipolar organism somewhat atypical, but fluorescent antibody positive for Pasteurella pestis. This organism was subsequently identified as P. pestis by phage typing.

Investigation of the area around the girl's home in Tsegi Canyon, Arizona, has revealed no evidence of a (Continued on page 270)

TABLE I. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

(Cumulotive tota	(Cumulotive totals include revised and delayed reports through previous weeks)												
	29th WEE	K ENDED	MEDIAN	CUMULA'	TIVE, FIR	ST 29 WEEKS							
DISEASE	July 20, 1968	July 22, 1967	1963 - 1967	1968	1967	MEDIAN 1963 - 1967							
Aseptic meningitis	120	50	51	1,140	1,039	901							
Brucellosis		4	5	106	152	152							
Diphtheria		1	1	90	58	90							
Encephalitis, primary:				i	į .								
Arthropod-borne & unspecified		33		507	748								
Encephalitis, post-infectious	10	16		307	511								
Hepatitis, serum	100	40	617	2,303	1,157	23,131							
Hepatitis, infectious		601	p	24,188	21,587	, .							
Malaria		28	3	1,184	1,098	57							
Measles (rubeola)	276	356	1,911	18,468	56,052	234,172							
Meningococcal infections, total		30	39	1,769	1,505	1,711							
Civilian		27		1,599	1,397								
Military		3		170	108								
Mumps				119,335									
Poliomyelitis, total		2	2 2	31 31	15	41 37							
Paralytic	353	438	2	41,358	38,319	37							
Rubella (German measles)			4 144		292,106	263, 425							
Streptococcal sore throat & scarlet fever		4,707	4, 144	270,055	112	132							
Tetanus		10	0	118	92	137							
Tularemia		11	11	166	220	209							
Typhoid fever		14	17	118	142	118							
Typhus, tick-borne (Rky. Mt. spotted fever) .		109	75	2,083	2,558	2, 558							
Rabies in animals	48	109	10	2,000	2,000	2,000							

TABLE II. NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.	ı
Anthrax: Calif1	3	Rabies in man:	-	ı
Botulism:		Rubella, Congenital Syndrome: Ill1		ı
Leptospirosis: Ohio-1	15	Trichinosis: * Calif1, Colo1, Mass1	40	ı
Plague:	1	Typhus, murine: Tex3	14	i
Psittacosis: Calif1	28			ĺ

PLAGUE CASE - (Continued from front page)

rodent die-off or other possible source for her infection. The girl denied any contact with wild animals, and no evidence of prairie dogs or their burrows was found. Residents of the area deny that prairie dogs have inhabited the area for the past year. Investigations are continuing to

determine the source of the girl's infection.
(Reported by Robert C. Vander Wagen, M.D., Deputy Director, Navajo Indian Health Area Office, Window Rock,

rector, Navajo Indian Health Area Office, Window Rock, Arizona; and Ecological Investigations Program, NCDC. Kansas City, Kansas.)

FOLLOW-UP PLAGUE - Denver, Colarada

No additional human cases of plague have been reported from Denver (MMWR, Vol. 17, Nos. 27 and 28), To date, of 272 processed dead squirrels, 52 were positive for plague by fluorescent antibody (FA) studies, and 15 of these 52 were also positive on culture. An additional three squirrels that had been negative by FA tests were positive for Pasteurella pestis on culture. Of 50 other mammals tested, none were positive for plague.

(Reported by Cecil S. Mollohan, M.D., M.P.H., Chief, Section of Epidemiology, Colorado Department of Health; and Ecolological Investigations Program, NCDC, Kansas City, Kansas.)

FATAL MALARIA CASE - California

On May 23, 1968, 24 hours after returning from service in Vietnam, a 22-year-old white male American marine, complaining of headache, fatigue, nausea, and vomiting, of 5 days duration, presented himself to the emergency room at a military hospital. He denied any fever. He did not give a history of malaria or other serious illnesses while in Vietnam, and he reported having taken his malaria chemoprophylaxis regularly. On physical examination the patient appeared moderately ill and had a temperature of 102.4 °F. There was slight scleral icterus, and the liver was enlarged and mildly tender; there was no splenomegaly. Initial laboratory studies revealed a hematocrit of 47 percent, a bilirubin of 3.2 mg percent, and an SGOT of 262. No malaria parasites were noted at this time on a routine blood smear.

The patient was hospitalized with a diagnosis of infectious hepatitis. He experienced daily fever spikes of 104 F. On the sixth hospital day, he became semicomatose; examination of peripheral blood smears then revealed a 70 percent parasitemia with Plasmodium falciparum. Lahoratory values at that time included the following: hematocrit 26 percent, bilirubin 23.6 per mg percent, BUN 120 mg percent, Na 118 meq/L., K 2.0 meq/L., Cl 64 meq. L., and CO2 8 meq. L. Hemoglobin was detected in the urine. Intravenous antimalaria therapy with quinine and chloroquine was immediately instituted. In addition, dexamethasone, heparin, and transfusions of packed red cells were administered. Because of the electrolyte imbalance and progressive azotemia, peritoneal dialysis was instituted on the seventh hospital day. On the eighth day, the patient had once again become lucid, his hematocrit had risen to 37 percent, and his electrolyte ahnormalities had been corrected. Examination of blood films at this time revealed only a few malaria parasites. Peritoneal dialysis was discontinued. That evening the patient developed pulmonary edema which responded to treatment with digoxin, morphine, rotating tourniquets, and ethacrynic acid. On the evening of the ninth hospital day, the patient again developed pulmonary edema which did not respond to treatment, and he expired. Three hours prior to his death, his serum potassium level was 6.0 meq/L. No malaria parasites could be found in blood films taken on the day of his death,

Postmortem examination revealed dilatation of both cardiac ventricles, marked pulmonary edema, congestive hepatosplenomegaly, and swollen bile-stained kidneys which showed focal evidence of tubular necrosis. Reexamination of the blood smears obtained on the day of the patient's admission to the hospital revealed the presence of numerous trophozoites of P. falciparum.

(Reported by Philip K. Condit, M.D., M.P.H., Chief, Bureau of Communicable Disease Control, California State Department of Public Health; and George I. Smith, Major, U.S. Air Force Medical Corps.)

Editarial Nate:

This patient developed four complications of falciparum mataria: cerebral involvement, intravascular hemolysis, renal failure, and pulmonary edema. The fact that he died despite a parasitic response to therapy suggests that severe infection with falciparum malaria may produce irreversible tissue damage and emphasizes the importance of prompt diagnosis and treatment of this disease.

OUTBREAK OF TUBERCULOSIS - Buffalo, New York

On January 11, 1968, a 32-year-old woman in Buffalo. New York, was found to have far advanced pulmonary tuberculosis by chest X-ray examination. Microscopic examination and cultures of her sputum were subsequently found positive for Mycobacterium tuberculosis. The woman had been employed since September 13, 1967, as a teacher's assistant in two classes (one morning and one afternoon), located in a church building. She was in close contact with the 26 students, age 3 to 5 years old, in these two classes for 2 1/2 hours each day

while she supervised their play and teaching activities and helped them with their outdoor clothing. She had contact with 29 other students in an adjoining classroom because she frequently led her students through this room to the single restroom, used by both classes. The woman aided all 55 students with their meals. There was limited ventilation in both rooms because windows were closed during the cold weather. The woman left her employment on December 21, 1967, because of her illness.

After tuberculosis was diagnosed in this woman, all 55 students, nine adult school personnel, eight parents and siblings of the school children, and four church employees were tuberculin tested on January 26. An additional 21 close contacts and 14 casual contacts outside the school were tuberculin tested within the following 3 weeks. The Mantoux method with 5 tuberculin units of PPD was used and 10 mm of induration was considered a positive reaction. All students, both teachers, and the other teacher's assistant were considered close contacts to the woman. Her close contacts outside the school either lived in her household or lived elsewhere but had a similar degree of contact. All others with significant contact were considered her casual contacts including the remaining seven adult school personnel.

Of the 111 contacts of the woman, 28 had a positive reaction (Table 1). Based on both a positive tuberculin test and chest X-ray evidence of enlarged hilar lymph nodes, eight new active cases of primary tuberculosis were identified. Two of these were documented tuberculin converters within the previous year; the other six had no record of a previous test. There were three other documented tuberculin converters with negative chest X-rays found on initial testing and one additional converter with a neg-

ative X-ray found on repeat testing 8 weeks later. Three of these six converters were under 5 years of age. Primary tuberculosis, the activity of which count not be determined at the initial examination, was diagnosed in an additional four contacts, and 12 others had inactive or probably inactive tuberculosis. No other converters were identified on retesting in May of the negative contacts although 23 of the 83 negative contacts were not available for reexamination.

The closeness of contact appeared to be related to the incidence of new infection in this outbreak. All eight active primary cases were considered close contacts as were two of the converters without active disease. Four of the active cases were students in the index case's classroom, one was a student in the adjoining classroom, and three were her own children. Based on available attendance records, the duration of contact did not seem to be a factor in the outbreak. Each of the four students with active primary tuberculosis in the source case's room had an average of 142 cumulative hours of contact (range 118 to 162) and the case in the adjoining room had only 36 hours of contact, while each of the 21 tuberculin negative students had an average of 148 cumulative hours of contact (range 87.5 to 180 hours).

It is of interest to note that the index case in this outbreak failed to submit to chest X-ray prior to beginning her teaching duties.

(Reported by William E. Mosher, M.D., M.P.H., Commissioner of Health, and A. Arthur Grabau, M.D., F.C.C.P., Director, Division of Tuberculosis Control, Eric County Department of Health, New York; Tuberculosis Program, NCDC: and a Tuberculosis Medical Officer.)

. Table 1 Cantacts of the Teacher's Assistant with a Positive Reaction to Tuberculin Test Buffala, New York — January - May 1968

	Prima	y Active			Prima	ry Cases	Inactive	or Probably		
		Cases	Conv	erters	Activity U	Indetermined	Inact	ive Cases	T	otal
Age (Years)	<5	>5	<5	>5	<5	>5	<5	>5	<5	>5
Close Contacts	6	2	3*	1	2	0	0	2	9	5
Casual Contacts	0	0	0	2	0	2	0	10	0	14
Total	6	2	3*	3	2	2	0	12	9	19

*Includes 2 cases already classified as primary active cases

SUBHUMAN PRIMATE-ASSOCIATED HEPATITIS - Oakland County, Michigan

Between May 10 and June 13, 1968, three animal handlers, who had contact with tropical and exotic animals atnaimal brokerage near Detroit, Michigan, developed hepatitis, and a fourth animal handler had possible hepatitis.

The 'irst case was ir a 17-year-old male who had onset of il iess on May 16. Although he began work at the brokerage on May 2, he had frequent contact with young chimpanzees during visits to the brokerage in April. On June 13 after a 3-week prodrome of headache, fatigue, fever, abdominal pain, and anorexia, he developed jaundice and had abnormal liver function tests. He had not received immune serum globulin (ISG) prior to or after becoming employed at the brokerage.

The second case was in an 18-year-old male who became ill on May 16. He had begun work at the brokerage February 17 and had not received globulin prophylaxis since his employment. He experienced a 2-week prodrome of headache, malaise, anorexia, and developed dark urine and jaundice on May 31 when liver function tests including an SGOT and LDH were abnormal.

The third case was a 24-year-old male who began work at the brokerage on May 13. He became ill on June 13 with headache, fever, chills, and anorexia. He subsequently developed dark urine which lasted 1 week, but he denied jaundice and yellow sclerae. Tests ofliver function were not performed. Prior to working at the brokerage, this patient had been employed as an animal handler at a zoo, and according to zoo policy, he had received ISG in November 1967.

(Continued on page 276)

Morbidity and Mortality Weekly Report

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

JULY 20, 1968 AND JULY 22, 1967 (29th WEEK)

						E	ENCEPHALIT	IS		HEPATITIS	HEPATITIS	
EMPLEMENTAND. 6 5 1 - 1 3 1 - 38 36 - 1	AREA			BRUCLUI OSIS	DIPHTHERIA	incl	uding		Serum	Infec	tious	MALARI
EM ENCLAND. 6 5 1 - 1 3 1 - 38 36 - 1		1968	1967	1968	1968	1968	1967	1968	1968	1968	1967	1968
Maine . A.	UNITED STATES	120	50	6	-	26	33	10	100	807	601	36
Maine . A.												
New Managhshre.		6	5	1		1	3		-	38		-
Vermont	Maine. *	-		-	-	-	-	1	-		3	
Massachusetts	New Hampshire	-		-	-	-	-	-		-	-	
Rhode Island	Vermont	-								10	10	
Connecticut. - 1 1 - - 18 18 -	Massachusetts	-			- 1	1	1 1	-		19		1
Signature 18				,			1			10		
New York City. 7	Connectitut		1		_	-	1	_	-	10	10	-
New York City. 7	MIDDLE ATLANTIC	18	_	-	_	6	_	_	35	116	78	5
New York, up-State				-	- 1		_	-				
New Jersey 11 1 0 26 13 3 3 2			_ :	_	_		_	_				
Pennsylvania	New Jersey	11	_	_	_	1	_	-	10			
AST NORTH CENTRAL. 19 6 - 6 10 2 3 95 89 4 Ohio	Pennsylvania		_	-	_	2	_					
Ohio	,											· 1
Ohio	EAST NORTH CENTRAL	19	6	-	-	6	10	2	3	95	89	4
Indiana				-	-			-				-
Illinofs.	Indiana		1	-	-	-		-				1
Michigan	Illinois		1	-	-	1	-	2				
## MISCONSIS.	Michigan		4	-	-	-	-	-				
EST NORTH CENTRAL. 4 2 1 - 1 1 1 4 43 55 4 Minnesota. 4 1 1 3 12 8		-		-	-	-	-	-				
Minesota.												
Minesota.	WEST NORTH CENTRAL			1	-	-	1	1	4		55	4
Iowa	Minnesota	4	1	-	-	-	-	-	3	12	8	-
Missouri 1 18 28 28	Iowa	-	-	-	- 1	-	-		-	6	10	1
North Dakota	Missouri	-	-	-	- 1	-	-	-	1	18	28	-
South Dakota	North Dakota	-	-	-	-	-	-	-	-	-		-
Kansa - 1 - - 1 1 - 7 9 3	South Dakota	-	-	1	-	-	-	- 1	-	-	-	-
Kansa - 1 - - 1 1 - 7 9 3	Nebraska	-	-	-	-	-	-	-	-	-	-	-
OUTH ATLANTIC.	Kansas	-	1	-	-	-	1	1 1	-	7	9	3
Delaware												
Maryland.	SOUTH ATLANTIC	17	3	2	-	1	10	2	6	72	58	7
Maryland.	Delaware			-	- 1	-	-	- 1	-	3	2	
Virginia 1	Maryland	2	2	-	- 1	1	1	- 1	-	14	21	1
West Virginia	Dist. of Columbia	1	-	-	-	-	1	-	-		3	-
West Virginia 1	Virginia.*	13	-	-	- 1	-	2	-	-	8	6	-
South Carolina - - - - - - - 1 1 1	West Virginia	1	-	-	-	-	-	-	-	6	2	-
Coorgia - - 2 - - - 14 - 15 - - - -	North Carolina	-	1	-	- 1	-	4	-	-	6	8	6
FIOCEDAR.		~	-	-	-	-	-	-	-		1	-
AST SOUTH CENTRAL. 6 5 - 1 1 1 1 - 70 54 3 Kentucky. 3 - 1 1 1 - 70 54 15 54 Kentucky. 3 - 1 1 - 24 21 3 3 - 1 1 - 26 15 - 26 15 5 Alabana 5 - 1 1 - 26 15 5 - 17 12 - 17 1	Georgia	-	- :	2	-	-	-	- :	-	14	-	-
Rentucky. 3	Florida	-	-	-	- !	-	2	2	6	19	15	-
Rentucky. 3												
Tennessee. 3 1 - 26 15 - 3 6 - 1 - 3 6 - 3 6 - 3 6 - 3 6 - 3 6 - 3 6 6 - 3 6 6 - 3 6 6 - 3 6 6 - 3 6 6 - 3 6 6 - 3 6 6 6 - 3 6 6 6 - 3 6 6 6 6			5	-	-	1		1	-			
Alabama 5 3 6 6 7 7 7 12 - 7 7 12 - 7 7 12 - 7 7 12 7 12 7 7 12				-	-	-	1		-			3
Mississippi 1 17 12 18 15 SOUTH CENTRAL. 18 17 1 - 3 5 1 1 50 65 1 1	Tennessee	3		-	-	-	-	1	-	26	15	-
REST SOUTH CENTRAL. 18 17 1 - 3 5 1 1 50 65 1 Arkansa 1 5 3 5 3 5 5 3 5 5 3 5 5 3 5 5 3 5 5 3 5 5 3 5 5 3 5 5 3 5 5 3 5 5 3 5 5 3 5 5 3 5 5 3 5 5 3 5 5 3 5 5 3 5 5 3 5 5 3 5 5 5 3 5 5 5 5			5 .	-	-	-	-	-	-			-
Arkansas	Mississippi	-	-	-	- 1	1	-	-		17	12	-
Arkansas												
Louisianaa 3 3 3 - 3 2 - 1 8 15 1 1						3	5	1	1			1
Oklahoma. 4 1 1 - 2 - 4 5 - Tewas 11 12 - - 1 - - 1 - - 1 - - 1 -						-	-	-	7		. 3	1 7
Texas 11 12 1 1 - 33 42 - 100	Louisiana				-	3		-	1			1
40UNIAIN. 1 1 - - 1 - 2 41 31 5 Montana. 1 - - 1 - - 6 3 -					-	-		1 1	-			-
Montana	Texas	11	12	-	-	-	1	1	-	33	42	
Montana												
1daho	MOUNTAIN			-		-						
Wyoning. - - - - - 2 15 16 5 New Mextco. - - - - - 2 15 16 5 Artzona. - - - - - - 4 10 - - - - 4 10 - <t< td=""><td></td><td></td><td></td><td></td><td>1 1</td><td></td><td>1</td><td></td><td></td><td></td><td></td><td></td></t<>					1 1		1					
Colorado 2 15 16 5 A 16	Luanio				-	-	-	-				
New Mextco 4 10 8 8	C-lands						-		2		16	
Arizona 1 8 - 3 2 - 1	Non Movico								2			
Utah			1					-	-			
Nevada												1
PACIFIC 31 11 1 - 8 2 2 49 282 135 7 Washington. 2 - 1 - 2 23 2 - 2 6 8 - 2 California 25 9 1 - 6 2 2 46 232 121 4 Alaska 1 - 2 1 - 2	Novada										-	
Washington 2 - - 1 - - 23 2 - 20 feet 8 - - 1 - - 26 feet 8 -	Mevdud											
Washington 2 - - 1 - - 23 2 - 20 feet 8 - - 1 - - 26 feet 8 -	DACTETO	31	11	1	-	8	2	2	4.9	282	135	7
Oregon 4 - - 1 - - 2 26 8 - California 25 9 1 - 6 2 2 46 232 121 1 -	Heat factor						-	-	47			1 1
California 25 9 1 - 6 2 2 46 232 121 4 Alaska 1	Orogon					1		1	2			
Alaska 1 1				1		6	2	2				
	Alaeka	45	9	1		0	-	2	40		121	
1 4 3	Unio i i		2						1		4	3
	mowdil		-								-	

* Delayed reports: Brucellosis: Va. delete 1 Hepatitis, infectious: Me. 1, F.R. 2

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDED

JULY 20, 1968 AND JULY 22, 1967 (29th WEEK) - CONTINUED

				MENTINGO	COCCAL INF	PECTIONS					
	MEA	SLES (Rub	ola)	PENTINGO	TOTAL	ECTIONS,	MUMPS		OLIOMYELI		RUBELLA
AREA		Cumu?	ative		Cumul	ative		Total	Para	lytic Cum.	
	1968	1968	1967	1968	1968	1967	1968	1968	1968	1968	1968
UNITED STATES	276	18,468	56,052	40	1,769	1,505	960	2	2	31	353
NEW ENGLAND	20	1,116	800	2	90	58	112	-	-	1	58
Maine. #	-	35	233	-	6	3	-	-	-	-	3
New Hampshire Vermont	1	141	74 34	1	7	2	1	- 1	-	-	-
Massachusetts. *	10	358	312	2	40	29	83	-	-	1	35
Rhode Island	9	1	60	-	7	4	16	-	-	-	9
Connecticut	9	579	87	-	29	20	12	-	-	-	11
MIDDLE ATLANTIC	104	3,630	2,156	15	319	241	115	-	-	-	59
New York City	84	1,719	'417 538	2 6	67 54	40 59	97	-	-	-	45
New York, Up-State A New Jersey	6	1,164 596	477	5	116	86	NN 18	-	1	1 -	13 1
Pennsylvania	5	151	724	2	82	56	NN	-	-	-	-
EAST NORTH CENTRAL	29	3,568 .	5,077	3	212	194	235			1	61
Ohio	4	283	1,118	2	58	67	13	1	-	-	61 5
Indiana	4	620	584	-	28	21	-	-	-	-	11
Illinois	11	1,330 238	879 878		47 61	45 46	21 25	- 1	-	1	12
Michigan Wisconsin	10	1,097	1,618	1	18	15	176				28
WEST NORTH CENTRAL Minnesota	5	366 15	2,792 128	3 2	89 21	64 16	41	-	1	1 -	22
Iowa	1	94	743	-	6	12	19	-			10
Missouri	1	81	330	-	31	12	9	-	-	1	8
North Dakota	1	124	825 52	1 :	3 4	1 6	9 NN	1	-	1	3
Nebraska	2	38	621	-	6	11	4	- 1			1
Kansas	-	10	93	1	18	. 6	2	-	-	-	-
SOUTH ATLANTIC	33	1,404	6,668	9	360	290	95	_		1	22
Delaware	1	15	43	1	7	5	3	-	1	1 -	-
Maryland	3 ~	85	145 .	-	26	34	17	-	-	-	1
Dist. of Columbia	1	. 6	22 2,090	1 -	14 28	10 35	17	-	-	-	-
Virginia West Virginia	9	258	1,342 *		9	20	39			-	6 15
North Carolina	-	281	0.20	4	73	63	NN	-	-	1	
South Carolina	-	13	* 504 32	1	56 61	27 44	-	-	-	1 :	-
Georgia Florida	19	452	1,652	2	86	52	19		-	[
EAST SOUTH CENTRAL Kentucky	3	541 172	5,045 1,298	1	149 58	122 34	85 5	-		1 1	36 22
Tennessee	-	55	1,785	1 1	49	50	69	_	_	_	13
Alabama	-	85	1,307	-	22	25	11	-	-	-	1
Mississippi	-	229	655	-	20	13	-	-	-	-	-
WEST SOUTH CENTRAL	59	4,538	16,953	3	290	211	-	1	1 .	17	38
Arkansas	1	3.	1,404	-	20	28	-	-	-	-	1
Louisiana Oklahoma		2 110	149 3,320		81 49	82 16	-		-	1	-
Texas	58	4,423	12,080	3	140	85	1	1	1	16	37
	10	948	4 500		27	0.6	101				
MOUNTAIN	- 10	948	4,509 275	1	27 3	26	104	-	1		21 1
Idaho	-	20	374	-	11	1	7	-	-	-	1
Wyoming	1	51	178	-	-	1	-	-	-	-	-
Colorado New Mexico	2	481 88	1,502	- 1	8 -	11 3	23	_		1	3
Arizona	4	216	983	-	1	4	24	-]	-	14
Utah Nevada		21	355	-	1	4	39	-	-	-	2
		,	269	-	3	2	_	-		-	
PACIFIC	13	2,357	12,052	4	233	299	173	1	1	9	36
Washington Oregon	3	514 457	5,391 1,523	1	37 18	25 24	12 15	1	1 -	1	2 11
California	9	1,349	4,856	3	165	237	127			8	19
Alaska	-	2	130	-	2	9	11	-	-	-	2
Hawaii	1	35	152	-	11	4	8		-		2
Puerto Rico	7	354	2,049		19	10	12	-	-	-	4

^{*} Delayed reports: Measles: Mass. delete 4, N. Y. Ups. 1 case 1967, 6 cases 1968 Mamps: Me. 6 Rubella: Me. 8, N. Y. Ups. 73

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDED

JULY 20, 1968 AND JULY 22, 1967 (29th WEEK) - CONTINUED

Minsesta	AREA	STREPTOCOCCAL SORE THROAT & SCARLET FEVER	TETA	ANUS	TULA	REMIA	TYP	HOID	TICK	S FEVER -BORNE . Spotted)		IES IN IMALS
NEW FENCIAMS.		1968	1968		1968		1968		1968		1968	
Maintenness	UNITED STATES					-700		2700				2,000
Maintenness		52/	,	,								
New Hampshire	NEW ENGLAND		1	- 4	-	46		,		-	-	
Vermont								1				
### Massachuserts			1 1			46						
## Rhode Island	Massachusetts		1	1	-		- 1	2	-	-	-	
MIDDE ATLANTIC. 116 2 12 - - 2 - - 1	Rhode Island		-		-	-	-	-	_	-	-	
Nov Vork City		412	-	1	-	-	-	2	-	-	-	1
New York City. 5	MIDDLE ATLANTIC	116	2	12		7		13	_ [7	2	22
New York, Up-State 102			ĩ		_		_		_			-
New Jersey. NN	New York, Up-State	102	-	4	-	7	-	3	-	1	1	15
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Misouri.			-		-	-		-				
North Dakota State			-				-					
South Dakota.*. 8			- 1		1	7	-	3				
Nebraska 59			-		-	-	-	-				82
Xansas. - - 1 - - 1 26						1			1			
SOUTH ATIANTIC.			1 1			1	1 1	-	1 1		1	
Delaware												
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Dist. of Columbia. 9				-	-	-	-	-	-	-	-	-
Virginia.**.			- 1		-	-	1			7	1	
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Floridal. 94 - 6 - 2 - 11 - 2 - 59 EAST SOUTH CENTRAL. 638 - 9 - 6 2 21 5 22 6 474 Kentucky. 77 - 1 - 1 - 5 3 6 4 231 Tennessee 308 - 2 - 4 - 11 2 14 2 221 Mississippi 20 - 3 - 1 2 5 - 1 - 1 - 2 1 Mississippi 20 - 16 2 28 3 17 1 14 9 370 Arkanas. 4 - 4 - 5 1 4 - 1 1 4 9 370 Arkanas. 4 - 4 - 5 1 4 - 1 1 4 3 Colorata. 7 - 5 - 5 1 3 - 1 1 4 3 Colorata. 7 - 5 - 5 5 1 3 - 1 1 4 3 Colorata. 14 6 - 4 1 7 2 109 Texas. 374 - 7 2 12 1 6 - 6 5 184 MOUNTAIN. 916 1 6 - 9 - 2 1 52 Montana 18 6 5 184 MOUNTAIN. 918 1 6 - 9 - 2 1 52 Colorado. 503 - 1 3 - 2 - 2 - 3 Kontana 19 6 - 6 5 184 MOUNTAIN. 918 1 5 - 5 5 1 3 - 7 1 Montana 19 6 - 9 - 2 1 52 Colorado. 503 - 1 3 - 7 2 12 Colorado. 503 - 1 3 - 7 2 2 - 2 3 Arkanas. 29 2 Colorado. 503 - 1 3 - 2 2 - 2 - 3 New Mexico. 110 6 - 6 5 3 New Mexico. 110 6 - 7 2 Colorado. 503 - 1 1 3 - 2 2 - 2 - 2 Articona. 29					-	2	1	10	3	9	1	34
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Rentucky. 77	DAGE COURT OFNEDAT	6.20					2	21		22	6	676
Tennessee					1 1							
Alabama. 33 - 3 1 - 21 Mississippi. 20 - 3 - 1 2 5 - 1 - 21 Mississippi. 20 - 3 - 1 2 5 - 1 - 21 WEST SOUTH CENTRAL. 599 - 16 2 28 3 17 1 14 9 370 Arkanasa. 4 - 4 - 5 1 4 - 1 1 43 Louisiana 7 - 5 - 5 1 3 1 34 Oklahoma. 14 6 - 4 1 7 2 109 Texas. 374 - 7 2 12 1 6 - 6 5 184 MOUNTAIN. 916 - 1 6 - 9 - 2 1 52 MOUNTAIN. 18 1 6 - 9 - 2 1 52 MOUNTAIN. 95 1 6 - 9 - 2 1 52 Cologado. 95 1 1 - 1 2 Cologado. 503 - 1 3 3 - 2 - 2 - 2 - 3 Arkanas. 29 6 1 2 2 - 2 - 3 Rew Mexico. 110 6 2 Arkicona. 29 1 27 Mevada. 2	Tennessee											
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Texas		14	-		-	6	-	4	1	7	2	109
Montana		574	-	7	2	12	1	6	-	6	5	184
Montana	MOUNTAIN	916		-	1	6	_	9	-	2	1	52
Idaho. 95	Montana		-		-	-	-	-			-	
Wyomin 7	Idaho		-		-	-	-	-	-	-	-	-
Colorado 503 - 1 3 - 2 - 2 - 3 New Mexico 110 - - - 6 - - 2 - - 1 27 Utah 154 - - 2 -		7	-	-	-		-		-		-	
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Nevada 5			-	-	-	- 2		-				
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Mashington												
74 - 1 - 1 - 3 3 California 360 - 12 - 1 23 - 1 10 168 Alaska 19			-		-	1			-	1	10	171
California. 360 - 12 1 23 - 1 10 168 Alaska. 19			-		-	-	1		-	-		2
Alaska	Oregon		-		-	1	1				10	
Hawaii				12			1	23				100
	Hawaii		-	-	-	-	-	-				-
Puerto Rico 5 1 6 1 16					-							16

^{*} Delayed reports: SST: Me. 2, N. Y. Ups. 25 cases 1967, 119 cases 1968, Ohio delete 1, Va. 1, Nev. 6 Rabies in animals: S. D. 45

Week No. 29 TABLE IV. DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED JULY 20, 1968

(By place of occurrence and week of filing certificate. Excludes fetal deaths)

(By place of	occurrenc	e and week	01 1111	ng certificate. Excludes i	etar death	3/		
	All Causes Pneumonia Under All Causes					uses	Pneumonia	Under	
A			and	1 year	Area	A11		and	1 year
Area	A11	65 years	Influenza	A11	Area		65 years	Influenza	A11
	Ages	and over	All Ages	Causes		Ages	and over	All Ages	Causes
NEW ENGLAND:	711	442	43	33	SOUTH ATLANTIC:	1,119	539	43	70
Boston, Mass	222	132	20	8	Atlanta, Ga	109	56	3	3
Bridgeport, Conn	43	28	5	3	Baltimore, Md	242	107	4	19
Cambridge, Mass	26 33	18 25	1	2	Charlotte, N. C Jacksonville, Fla	53 50	25 29	3	1 3
Fall River, Mass	51 51	25	1 1	4	Miami, Fla	122	60	2	4
Hartford, Conn Lowell, Mass	35	18	1	2	Norfolk, Va	53	28	4	1
Lynn, Mass	16	14	1	- 1	Richmond, Va	75	39	6	4
New Bedford, Mass	26	16	-	2	Savannah, Ga	24	8	1	4
New Haven, Conn:	42	23	1	-	St. Petersburg, Fla	64	51	3	-
Providence, R. I	65	35 '	2	5	Tampa, Fla	53	28	10	2
Somerville, Mass	14	8	-	-	Washington, D. C	244	93	4	29
Springfield, Mass	50	40	7	1	Wilmington, Del	30	15	2	-
Waterbury, Conn	27	16	1 6	2	EAST SOUTH CENTRAL:	642	336	31	31
Worcester, Mass	61	41	ь	4	Birmingham, Ala	88	48	1	5
MIDDLE ATLANTIC:	3,516	2,127	138	149	Chattanooga, Tenn	66	36	3	4
Albany, N. Y	70	45	2	2	Knovwille Tenn	38	25	6	1
Allentown, Pa	43	27	1	3	Louisville, Kv	138	76	7	4
Buffalo, N. Y	167	99	6	10	Memphis, Tenn	126	64	6	6
Camden, N. J	45	29	1	2	Mobile, Ala	42	21	-	4
Elizabeth, N. J	32	15	-		Montgomery, Ala	39	20	4	2
Erie, Pa	50	26	1	3	Nashville, Tenn	105	46	4	5
Jersey City, N. J	65 99	38	2	5 2	WEST SOUTH CENTRAL:	1,077	577	40	57
Newark, N. J New York City, N. Y		48 1,037	6 73	53	Austin, Tex	51	31	11	3
Paterson, N. J	36	22	/3	3	Baton Rouge, La	38	19		
Philadelphia, Pa	581	329	17	44	Corpus Christi, Tex	21	11	2	1
Pittsburgh, Pa	183	101	10 .	5	Dallas, Tex	152	84	4	10
Reading, Pa	41	26	2	- 2	El Paso, Tex	32	14	-	1
Rochester, N. Y	143	95 -	5	5	Fort Worth, Tex	78	43	-	5
Schenectady, N. Y	2.5	20	-	1	Houston, Tex	195	99	3	16
Scranton, Pa	52	41	5	2	Little Rock, Ark	58	28	5	8
Syracuse, N. Y	. 89 38	63 17	2	3	New Orleans, La Oklahoma City, Okla	137	64	1	6
Trenton, N. J Utica, N. Y	38 . 31	17	2	1	San Antonio, Tex	82 107	46 63	1	3
Yonkers, N. Y	39	30		3	Shreveport, La	63	32	6	3
Toukers, W. T	39	30	-	,	Tulsa, Okla	63	43	7	1
EAST NORTH CENTRAL:	2,516	1,460	72	111					
Akron, Ohio	69	42	-	4	MOUNTAIN:	418	225	23	33
Canton, Ohio	40	23	4	-	Albuquerque, N. Mex	44	18	6	7
Chicago, Ill	· 775	422	18	37	Colorado Springs, Colo.	26	19	3	2
Cincinnati, Ohio	144	86	1	2	Denver, Colo Ogden, Utah	125	68	5	14
Cleveland, Ohio	182	94	5	9	Phoenix, Ariz	12 85	7 42	1	1 2
Columbus, Ohio Dayton, Ohio	132 75	72 46	4 3	8	Pueblo, Colo	26	15	2	2
Detroit, Mich	332	185	8	16	Salt Lake City, Utah	59	34	1	4
Evansville, Ind	22	18	3	-	Tucson, Ariz	41	22	4	1
Flint, Mich	49	28	3	1					1
Fort Wayne, Ind	39	27-	1	1	PACIFIC:	1,594	951	28	70
Gary, Ind	42	26	3	3	Berkeley, Calif	20	16	1 7	1
Grand Rapids, Mich	51	30	3	6	Fresno, Calif	65	38	1	1
Indianapolis, Ind		88 27	3	13	Glendale, Calif Honolulu, Hawaii	33 50	20 22	1	7
Madison, Wis Milwaukee, Wis	42 108	27 80	1 1	1 3	Long Beach, Calif	100	63	4	1
Peoria, Ill	39	26	<u> </u>	-	Los Angeles, Calif	521	321	9	21
Rockford, Ill	32	19	2	1	Oakland, Calif	71	35	ĺ	2
South Bend, Ind	40	27	3	-	Pasadena, Calif	44	28	-	1
Toledo, Ohio	93	57	3	1	Portland, Oreg	124	79	3	9
Youngstown, Ohio	59	37	3	2	Sacramento, Calif	55	32	-	3
		(7)			San Diego, Calif	92 143	54 79	2	4
WEST NORTH CENTRAL:	831 50	471 31	32 4	55 2	San Francisco, Calif	143 35	19	-	2
Des Moines, Iowa Duluth, Minn	22	15	4	2	San Jose, Calif Seattle, Wash	154	81	6	9
Kansas City, Kans		13	2	7	Spokane, Wash	52	40	i	1
Kansas City, Mo		82	3	9	Tacoma, Wash	35	24	-	1
Lincoln, Nebr	30	15	1	2					_
Minneapolis, Minn	128	74	3	7	Total	12,424	7,128	450	609
Omaha, Nebr	65	39	1	5					
St. Louis, Mo	239	127	4	12	Cu	mulative To	otals		-1
St. Paul, Minn	54	32	3 7	3 8	including report	ed correct:	tons for p	revious we	eks
Wichita, Kans	73	43	7	8	All Causes, All Ages			376 69	94
					All Causes Age 65 and	over		218.74	+3
					All Causes, Under 1 Yea	r of Age		17,39	16
					· · · · · · · · · · · · · · · · · · ·				

HEPATITIS - (Continued from page 271)

All three patients denied ingestion of raw shellfish or contact with a known hepatitis case during the 2 months prior to their illnesses. All three gave no history of transfusions of blood or blood products or use of parenteral druss in the 6 months or to tillness.

origis in the o-monts prior to timess.

There was a fourth possible hepatitis case in a 17-year-old male who began work at the brokerage in January 1968 and who became ill on June 11 with nausea, vomiting, and diarrhea. He subsequently developed fatigue, loss of taste for cigarettes, and anorexia. He denied dark urine and jaundice, and although he was hospitalized for 4 days beginning June 13, bilirubin and transaminase determinations were not performed. He had received 10 cc of gamma globulin in February 1968.

The four handlers had been responsible for the care and cleaning of all animals housed at the brokerage. Primates housed at the brokerage comprised a variety of species, including chimpanzees (implicated in previous hepatitis outbreaks¹). Celebes apes, and woolly monkeys. No cases of jaundice had occurred among the chimpanzees and other primates at the brokerage, and there had not been a higher than expected death rate among the animals.

Prior to these four cases, five cases of hepatitis with jaundice had occurred among the owners and employees of the brokerage. These cases occurred between 1960 when the brokerage entered into chimpanzee importation and supply and June 1966 when the brokerage began administering ISG at 3- to 4-month intervals to all employees. However, since January 1968, ISG had not been regularly administered to personnel at the brokerage.

(Reported by Thomas McInerney, M.D., Physician, William Beaumont Hospital; Frank Condon, M.D., M.P.H., Deputy Director, and Theodore M. Barr, D.V.M., Veterinarian, Oakland County Health Department; Donald B. Coohon, D.V.M., Deputy Chief, Bureau of Epidemiology, Michigan State Department of Public Health; and an EIS Officer.)

¹Hillis, William D.: An Outbreak of Infectious Hepatitis Among Chimpanzee Handlers at a United States Air Force Base, Amer J Hyg 7J (3):316-328, 1961.

CURRENT TRENDS ARBOVIRUS DISEASE - United States

No human cases of arhovirus disease have been reported to NCDC to date in 1968; however, arboviruses, known to cause disease in man, have been isolated from mosquitos in Wisconsin (California Group virus) and west Texas (Western equine encephalitis virus). Cases of equine encephalitis have been reported from Arkansas, California, North Carolina, and Texas, although in most cases the etiology has not been determined.

Because of the unusual amount of rainfall noted this spring and subsequent increase in the mosquito population and the presence of a susceptible vertebrate host reservoir, conditions now exist that favor an outbreak of arbovirus infection.

(Re ported by Arkansas State Board of Health; California State Department of Public Health; North Carolina State Board of Health; Texas State Department of Health; Wisconsin State Department of Health and Social Services; and Laboratory Program and Epidemiology Program, NCDC.) THE MORBIDITY AND MORTALITY WEEKLY REPORT, WITH A CIRCULA-TION OF 17,000, IS PUBLISHED AT THE NATIONAL COMMUNICABLE DISEASE CENTER, ATLANTA, GEORGIA.

OIRECTOR, NATIONAL COMMUNICABLE OISEASE CENTER

DAVID J. SENCER, M.D.

CHIEF, EPIDEMIOLOGY PROGRAM

ACCUMING CHIEF, STATISTICS SECTION

ACCUMING CHIEF, STATISTICS CHIEF

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ACTION TO THE ESTABLISHED PROCEDURES FOR REPORTING REPORTING THE REPORTING FOR THE R

DFFICIALS AND WHICH ARE DIRECTLY RELATED TO THE CON OF COMMUNICABLE DISEASES. SUCH COMMUNICATIONS SHOULD ACORESSED TO: NATIONAL COMMUNICABLE DISEASE CENTER ATLANTA, GEDRGIA 30333

ATTN: THE EDITOR MORETALITY WEEKLY REPORT

NOTE: THE DATA IN THIS REPORT ARE PROVISIONAL AND ARE BASED DN WEEKLY TELEGRAMS TO THE NOOC BY THE INDIVIDUAL STATE HEALTH DEPARTMENTS. THE REPORTING WEEK CONCLUDED ON SATURDAY! COMPILED DATA ON A NATIONAL BASIS ARE RELEASED ON THE SUCCEEDING FRIDAY.



U. S. DEPARTMENT OF H. E. W